



PYC65A

Prime Power: 45KW/57KVA

Standby Power: 50KW/63KVA

Voltage: 400V

Powered by Yuchai YC4D80-D34 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Voltage regulation
- The steady state frequency ≤0.5%
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation \leq +10% \leq -15%

≤3S

 \leq 1S(Voltage \pm 3%)

- The transient voltage deviation $\leq +20\% \leq -15\%$
- Frequency recovery time
- Voltage recovery time
- THF (Telephone Harmonic Factor) <3
- TIF (Telephone Influence Factor) <50
 Comply to Standard NEMA MG1-22.43
- Standard equipped with ambient temperature 40°C
 Connecting radiator
- Built-in vibration isolator with high performance on shock absorption.
- Product standards: (1) GB/T 2820-2022 / IS08528:2018
 (2) GB/T 4712-2008 (3) YD/T 502-2020 (4)YD/T 1051-2018

Optional Items

- Starting batteries
- Fuel tank
- Oil-water separator
- Sensor for low coolant level, low fuel/oil level
- Automatically monitoring & controlling system of city power
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Silent type/Trailer
- Standardized container
- Design and construction of environmental protection; engineering for the Genset room.

Standard Configuration

- Guangxi Yuchai Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Bottom fuel tank
- Manual book and files





Diesel Engine

- Model: YC4D80-D34
- Structure: High-strength cylinder block, reinforced crankshaft, and alloy steel connecting rods make the engine more durable and have a lighter and more compact structure among similar products;
- The cylinder head is designed with an integrated water outlet pipe to reduce the sealing surface and improve sealing reliability;
- It adopts advanced and mature BOSCH electronically controlled common rail + high-efficiency supercharging technology to accurately control the fuel injection volume and sufficient air intake to ensure that the diesel engine has sufficient combustion and low emissions under different load conditions;



- Adopting a two-stage diesel filter with alarm function, the operation is more guaranteed;
- YC4D series engines are classic power products developed by Yuchai. They have high brand awareness and market share. It is highly recognized and has more than 500,000 units in the market. The generator sets developed on its basis use generators. The motor has the advantages of reliability and durability, energy saving and environmental protection, compact structure, strong transient loading capacity, and good maintainability;

Alternator

- Optional brands: Stamford / Marathon / Faraday / Engga / Mecc Alt
- Brushless, 4 pole rotating magnetic field, single bearing with protective cover.
- Insulation: H Class.
- IP Class: IP23
- Cooling system
- AC exciter, rotate rectifying
- The stator winding is impregnated and the surface is covered with moisture-proof epoxy insulating paint.
- Rotor and exciter made with high temperature insulating resin, to satify tough environment.
- Rotor dynamic balancing complys for BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.





Standard Meters

- 3 phases voltage: Ua, Ub, Uc
- Frequency F1
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature °C display
- Oil pressure OP
- Engine speed

- 3 phases current: La, Lb, Lc
- Active power PA
- Power factor PF
- Temperature °C display
- KPa/Psi/Bar display
- Battery voltage V
- **Running Hour**
- Starting timer: (999999)



Standard Protection Function

Genset Protection

Programmable I/O signal

Engine Protection

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail

Alternator Protection

- **Over Voltage**
- Over current
- Voltage signal lost

Control System Components

- Manual/auto/stop/start
- Setting button
- Fault status indicators

- Emergency stop
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail
- **Over frequency**
- Screen menu selection button
- Emergency stop button
- **Digital displayer**



Communication Interface

(Option)

International standard MODBUS communication protocol RS232/RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;.

- **Over Voltage**
- - Under frequency

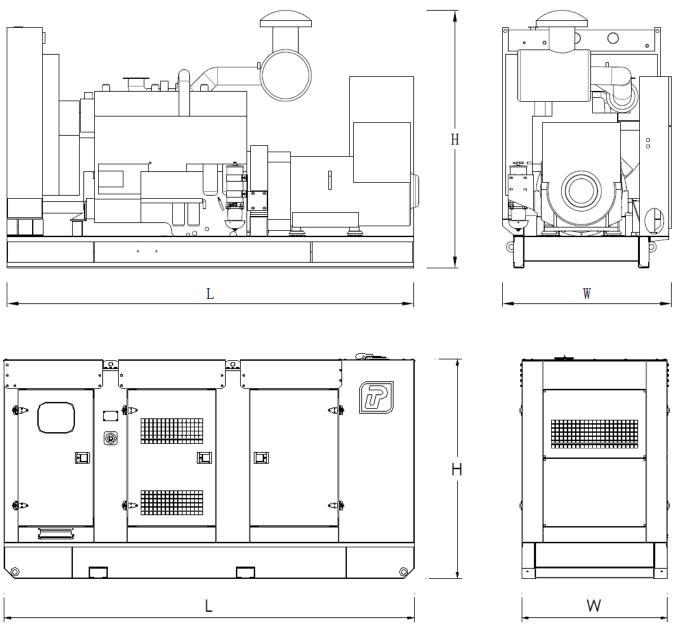
Data sheet of Genset



Genset			
Model	PYC65A		
Prime Rating (kw)	45		
Standby Rating (kw)	50		
Rate current(A)	81		
Power factor	0.8		
Frequency(Hz)	50		
Engine			
Engine Model	YC4D80-D34		
Gross Engine output-Prime (kw)	53		
Gross Engine output-Standby (kw)	tandby (kw) 59		
Bore * stroke (mm)	108*115		
Cylinders and structure	4 In line		
Displacement(Liter)	4.214		
Compression Ratio	17.5:1		
Intake way	turbocharging		
Max intake resistance (KPa)	5		
Air intake (m3/h)	244		
Max exhaust back pressure (KPa)	10		
Exhaust gas flow (m3/h)	678		
Exhaust temp (°C)	490		
Cooling way	Water Radiator & Fan		
Fan exhaust flow (m3/min)	160.4		
Coolant capacity (L)	22		
Highest water temperature($^{\circ}$ C)	97		
Minimum air opening to room (m2) 0.7/0.6			
Thermostat range (°C) 70-80			
Max oil temperature (°C) 120			
Lubrication system oil capacity (L)	13		
Rate load fuel consumption(L/H)	uel consumption(L/H) 14.8		
Standard Governor/Class	Electronically controlled high voltage common rail		
Emission	China Tier 3		
Alter	nator		
Rated Voltage(V)	230/400		
Output Way	3 Phases, 4 wires		
Rated power factor	0.8		
Exciter	Brushless, Self-exciter		
Max voltage regulation	±1%		
Phase	3		
Protection class	IP21-23		
Insulation class	Н		
Controller			
Brand	POWERTEC		

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2000*850*1250	920	110
Silent Type	2920*1100*1750	1670	300

Contact Us

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